

#17/Raw

**\*09491063\***

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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/491,063A**

DATE: 12/27/2002  
 TIME: 15:03:45

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Input Set : A:\UF-232XC1.ST25.txt  
 Output Set: N:\CRF4\12272002\I491063A.raw

JAN 06 2003

3 <110> APPLICANT: Polston, Jane  
 4 Hiebert, Ernest  
 5 Abouzid, Ahmed  
 6 Hunter, Wayne  
 8 <120> TITLE OF INVENTION: Materials and Methods for Producing Geminivirus Resistant Plants  
 10 <130> FILE REFERENCE: UF-232XC1  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/491,063A  
 C--> 12 <141> CURRENT FILING DATE: 2000-01-25  
 12 <150> PRIOR APPLICATION NUMBER: 60/117,151  
 13 <151> PRIOR FILING DATE: 1995-01-25  
 15 <160> NUMBER OF SEQ ID NOS: 2  
 17 <170> SOFTWARE: PatentIn version 3.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 1083  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Tomato mottle geminivirus  
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 29 aagaaattca tcaaaatttg cagagagctt catggaaatg gggAACCTCA tctccatgtg 180  
 31 ctgttcagt tcgaaggtaa gtaccaatgc acgaataaca gattttcga cctggctcc 240  
 33 ccaaccgggt cagcacattt ccattccgaat attcaggag ctaaatcgag ctccgacgtc 300  
 35 aaatcataca tcgacaagga cggagataca atcgaatggg gagatttcca aatcgacggc 360  
 37 agatctgccca gaggaggcca gcagtctgct aatgattcat atgcgaaagc attaaatgca 420  
 39 gttcggttc aatctgcctt agcggttcta agggaaagac aaccaaaaga ttttgtatta 480  
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 43 gttcctccat ttcaagtctc ttctttcaact aacgttctcg acgagatgca ggaatggcg 600  
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 49 ctcagtggac acctagactt caatggtcga gtcttctcga atgatgtgca gtataacgtc 780  
 51 attgatgaca tcgcaccgca ttatctaaag ctaaagact ggaaagaatt gctggggcc 840  
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 57 gcagaaaata caggtctcaa gaactggact atcaagaatg cgatcttcat caccctcaca 1020  
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 67 <213> ORGANISM: Tomato mottle geminivirus  
 69 <400> SEQUENCE: 2  
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**ENTERED**

72 1

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75 Thr Tyr Pro Gln Cys Ser Leu Ser Lys Glu Glu Ala Leu Ser Gln Leu  
76 20 25 30  
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80 35 40 45  
83 Glu Leu His Glu Asn Gly Glu Pro His Leu His Val Leu Val Gln Phe  
84 50 55 60  
87 Glu Gly Lys Tyr Gln Cys Thr Asn Asn Arg Phe Phe Asp Leu Val Ser  
88 65 70 75 80  
91 Pro Thr Arg Ser Ala His Phe His Pro Asn Ile Gln Gly Ala Lys Ser  
92 85 90 95  
95 Ser Ser Asp Val Lys Ser Tyr Ile Asp Lys Asp Gly Asp Thr Ile Glu  
96 100 105 110  
99 Trp Gly Asp Phe Gln Ile Asp Gly Arg Ser Ala Arg Gly Gln Gln  
100 115 120 125  
103 Ser Ala Asn Asp Ser Tyr Ala Lys Ala Leu Asn Ala Gly Ser Val Gln  
104 130 135 140  
107 Ser Ala Leu Ala Val Leu Arg Glu Glu Gln Pro Lys Asp Phe Val Leu  
108 145 150 155 160  
111 Gln Asn His Asn Ile Arg Ser Asn Leu Glu Arg Ile Phe Ala Lys Ala  
112 165 170 175  
115 Pro Glu Pro Trp Val Pro Pro Phe Gln Val Ser Ser Phe Thr Asn Val  
116 180 185 190  
119 Pro Asp Glu Met Gln Glu Trp Ala Asp Asn Tyr Phe Gly Thr Gly Asp  
120 195 200 205  
123 Ala Ala Pro Pro Asp Arg Pro Val Ser Ile Ile Val Glu Gly Asp Ser  
124 210 215 220  
127 Arg Thr Gly Lys Thr Met Trp Ala Arg Ala Leu Gly Pro His Asn Tyr  
128 225 230 235 240  
131 Leu Ser Gly His Leu Asp Phe Asn Gly Arg Val Phe Ser Asn Asp Val  
132 245 250 255  
135 Gln Tyr Asn Val Ile Asp Asp Ile Ala Pro His Tyr Leu Lys Leu Lys  
136 260 265 270  
139 His Trp Lys Glu Leu Leu Gly Ala Gln Lys Asp Trp Gln Ser Asn Cys  
140 275 280 285  
143 Lys Tyr Gly Lys Pro Val Gln Ile Lys Gly Gly Ile Pro Ala Ile Val  
144 290 295 300  
147 Leu Cys Asn Pro Gly Glu Gly Ala Ser Tyr Lys Glu Phe Leu Asp Lys  
148 305 310 315 320  
151 Ala Glu Asn Thr Gly Leu Lys Asn Trp Thr Ile Lys Asn Ala Ile Phe  
152 325 330 335  
155 Ile Thr Leu Thr Ala Pro Leu Tyr Gln Glu Ser Thr Gln Ala Ser Gln  
156 340 345 350  
159 Glu Thr Gly Asn Gln Lys Ala Gln Gly  
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**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/09/491,063A

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Input Set : A:\UF-232XC1.ST25.txt  
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date